

**Claims**

1           1. A universal computer-aided design system comprising:  
2           a computer-aided design neutral database having values within  
3           addressable data cells;  
4           a computer-aided design graphics platform operating on readable  
5           formatted data unique to said platform;  
6           an export routine capable of conveying the values within the data cells  
7           to said platform as readable formatted data independent of translation; and  
8           a computer capable of executing the export routine.

1           2. The universal computer-aided design system of claim 1 further  
2           comprising a plurality of said platforms and corresponding export routines  
3           wherein each of said plurality of platforms is interactive with said database by  
4           said corresponding export routine.

1           3. The universal computer-aided design system of claim 1 wherein  
2           a modification to the readable formatted data within said platform updates the  
3           values in said database.

1           4. The universal computer-aided design system of claim 1 wherein  
2           said computer-aided design neutral database having values is arranged into a  
3           part family, said part family comprising a part family member.

1           5. The universal computer-aided design system of claim 1 further  
2 comprising a query routine program prompting a user for input, said program  
3 storing the input in the computer-aided design neutral database.

1           6. The universal computer-aided design system of claim 4 where  
2 said part family member is described by a parameter description having at least  
3 one physical property selected from a group consisting of: size, shape, color,  
4 material, and weight.

1           7. The universal computer-aided design system of claim 5 wherein  
2 said parameter description further comprises at least one information packet  
3 selected from a group consisting of: part name, part number, price, inventory,  
4 manufacturer, and a computer web link to the manufacturer.

1           8. A universal computer-aided design system comprising:  
2           a computer-aided design neutral database having values within  
3 addressable data cells;  
4           a plurality of computer-aided design graphics platforms each operating  
5 on readable formatted data unique to said platform; and  
6           a plurality of export routines, corresponding to said plurality of  
7 computer-aided design graphics platforms wherein each of said plurality of  
8 platforms is interactive with said database by said corresponding export  
9 routine.

1           9.    The universal computer-aided design system of claim 8 wherein  
2    a modification to the readable formatted data within said platform updates the  
3    values in said database.

1           10.   The universal computer-aided design system of claim 8 wherein  
2    said computer-aided design neutral database having values is arranged into a  
3    part family, said part family comprising a part family member.

1           11.   The universal computer-aided design system of claim 8 further  
2    comprising a query routine program prompting a user for input, said program  
3    storing the input in the computer-aided design neutral database.

1           12.   The universal computer-aided design system of claim 11 where  
2    said part family member is described by a parameter description having at least  
3    one physical property selected from a group consisting of: size, shape, color,  
4    material, and weight.

1           13.   The universal computer-aided design system of claim 12  
2    wherein said parameter description further comprises at least one information  
3    packet selected from a group consisting of: part name, part number, price,  
4    inventory, manufacturer, and a computer web link to the manufacturer.

1           14. A universal computer-aided design system comprising:

2           a computer-aided design neutral database having values within

3           addressable data cells;

4           a file created from said database in a computer-aided design neutral file

5           format;

6           a computer-aided design graphics platform operating on readable

7           formatted data unique to said platform;

8           an export routine capable of conveying the values within the file to said

9           platform as readable formatted data independent of translation;

10          an import routine capable of conveying values from the platform as

11          readable formatted data independent of translation; and

12          a computer capable of executing the export and import routines.

1           15. A process for computer-aided design rendering comprising the

2           steps of:

3           storing values within addressable data cells of a computer-aided design

4           neutral database; and

5           delivering the values to one of a plurality of computer-aided design

6           graphics platforms in a format readable by one of said graphics platforms

7           independent of translation.

1           16. The process of claim 15 further comprising the step of updating  
2        said computer-aided design neutral database from said computer-aided design  
3        graphics platform.

1           17. The process of claim 15 further comprising the step of  
2        performing parametric modeling prior to updating said computer-aided design  
3        database.

1           18. The process of claim 15 wherein values stored within said  
2        computer-aided design database are arranged into a part family, said part  
3        family comprising a part family member.

1           19. The use of a neutral database for exporting parameters to a first  
2        graphics platform, said database receiving updated data from said first graphics  
3        platform and displaying the updated data on a second disparate graphics  
4        platform independent of translation.

1           20. The use of a neutral database according to claim \_\_\_\_\_ wherein  
2        said first and said second graphics platforms are computer-aided design  
3        platforms.

EEC-10002/38  
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1           21. The process of claim 14 further comprising the step of inputting  
2 data into said computer-aided design neutral database through supplying  
3 information in response to a query routine program.